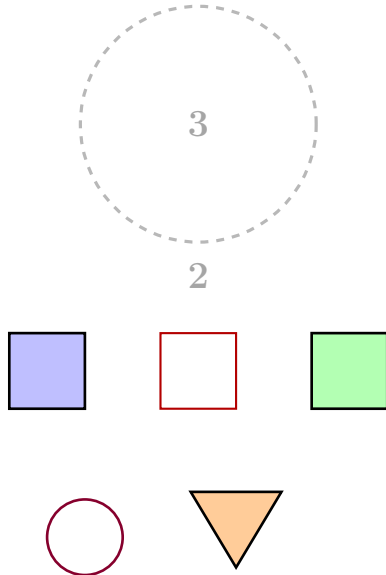


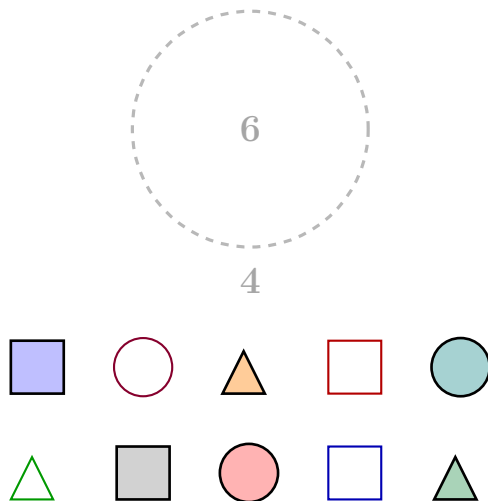
# SPOT THE RULE: VENN CHALLENGES

Mr. Merrick · October 7, 2025

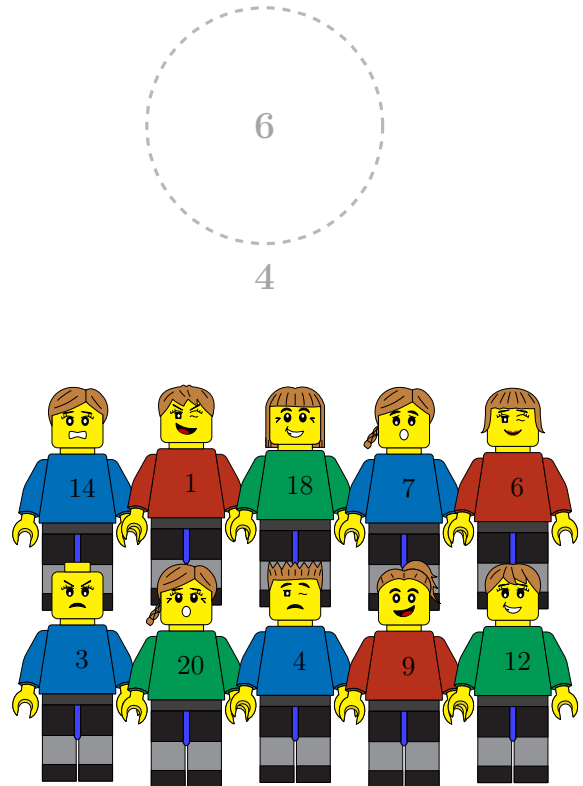
1. Below are 5 shapes. The dashed circle shows how many satisfy a *single hidden rule*. Deduce the rule from the diagram.



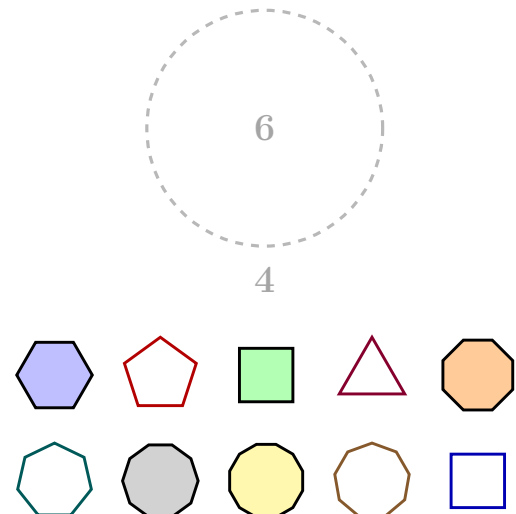
2. Below are 10 shapes. The dashed circle shows how many satisfy a *single hidden rule*. Deduce the rule from the diagram.



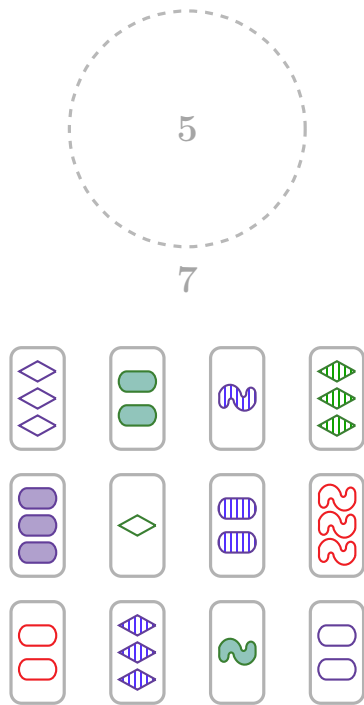
3. Below are 10 LEGO minifigures. The dashed circle shows how many figures satisfy a *single hidden rule*. Figure out the rule.



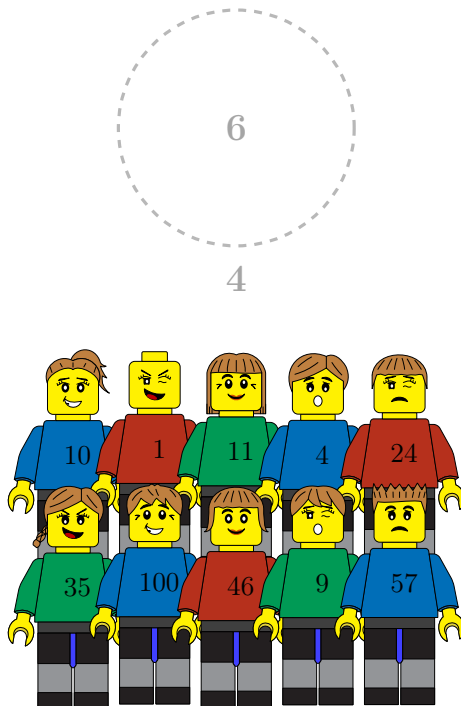
4. Below are 10 polygons. The dashed circle shows how many satisfy a *single hidden rule*. Figure out the rule.



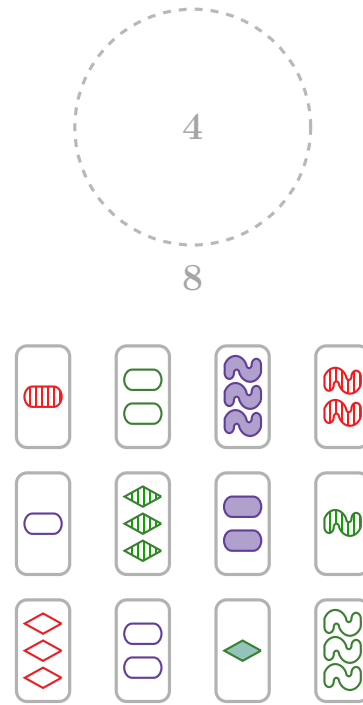
5. **One circle (Set).** Below are 12 Set cards. The dashed circle shows how many cards satisfy a *single hidden rule*. Figure out the rule. **Bonus:** find all *sets*.



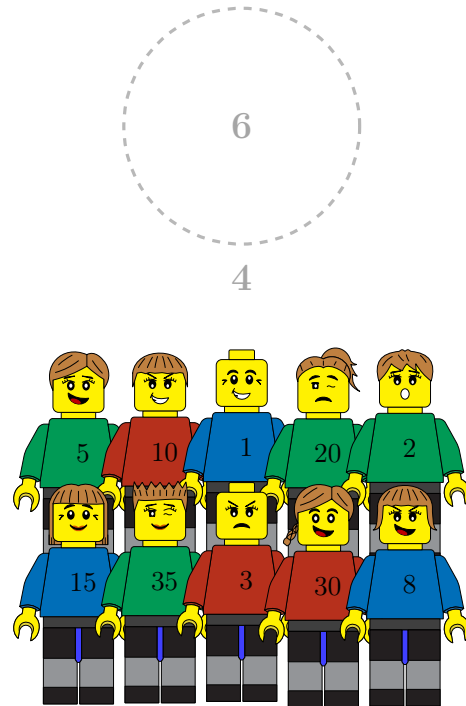
6. Below are 10 LEGO minifigures. The dashed circle shows how many figures satisfy a *single hidden rule*. Figure out the rule.



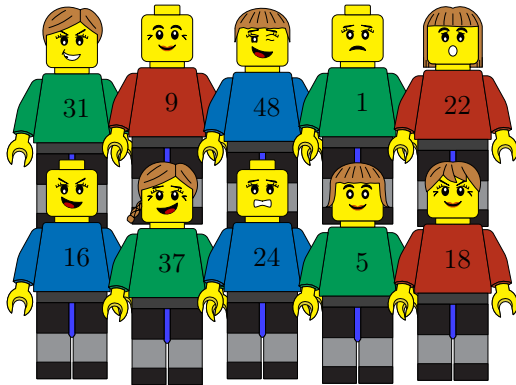
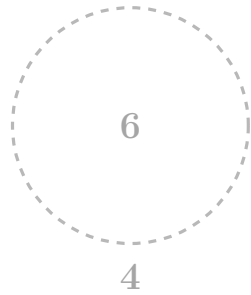
7. Below are 12 Set cards. The dashed circle shows how many cards satisfy a *single hidden rule*. Figure out the rule. **Bonus:** find all *sets*.



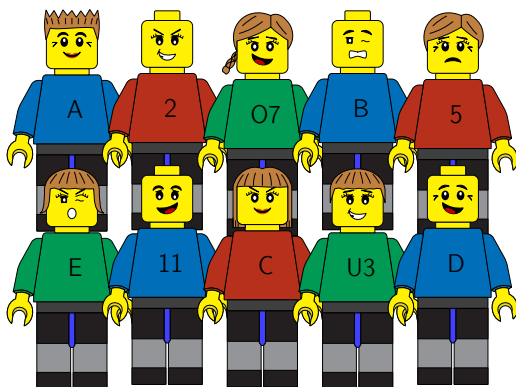
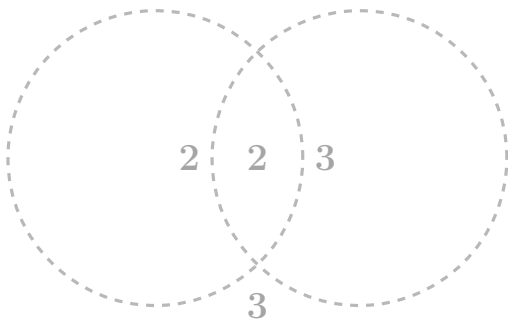
8. Below are 10 LEGO minifigures. The dashed circle shows how many figures satisfy a *single hidden rule*. Figure out the rule.



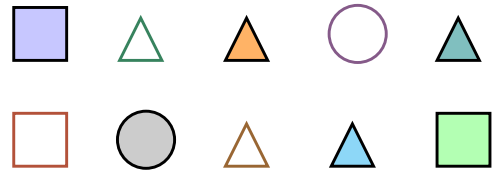
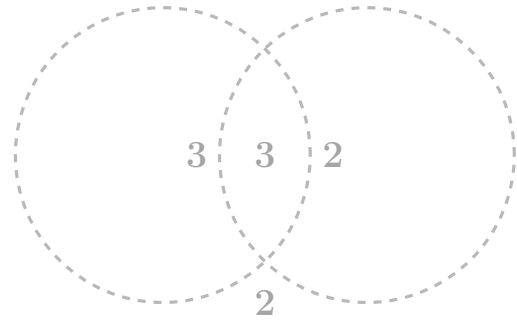
9. Below are 10 LEGO minifigures. The dashed circle shows how many figures satisfy a *single hidden rule*. Figure out the rule.



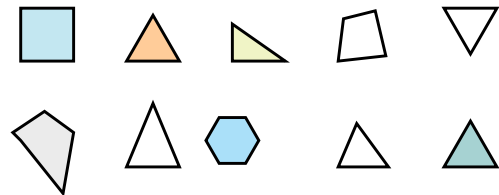
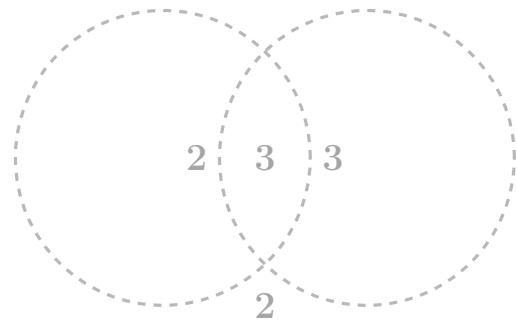
10. Below are 10 LEGO minifigures. The dashed circles show how many figures satisfy *two hidden rules*. Figure out the rules.



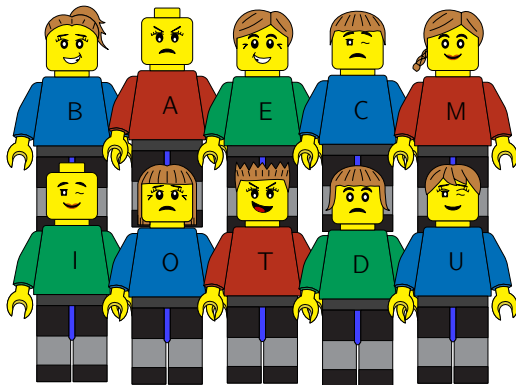
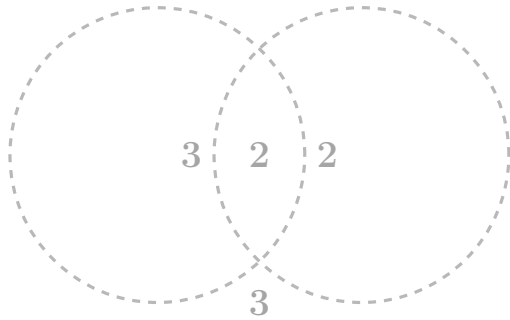
11. Below are 10 shapes. The dashed circles show how many fit *each of two hidden rules*. Do not move any—just figure out both rules.



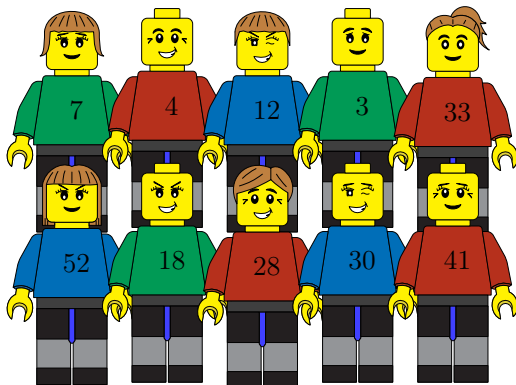
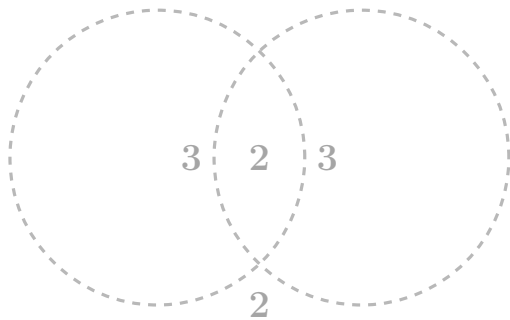
12. Below are 10 shapes. The dashed circles show how many fit *each of two hidden rules*. Do not move any—just figure out both rules.



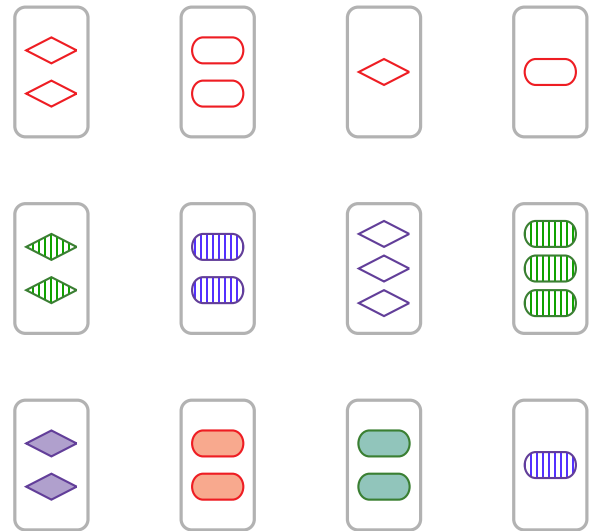
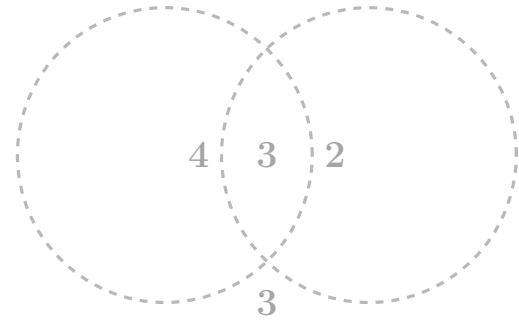
13. Below are 10 LEGO minifigures. The dashed circles show how many figures satisfy *two hidden rules*. Figure out the rules.



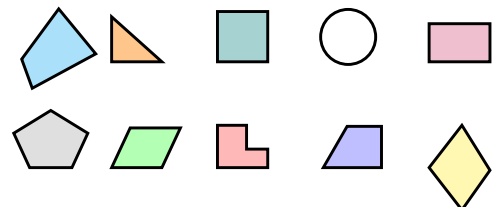
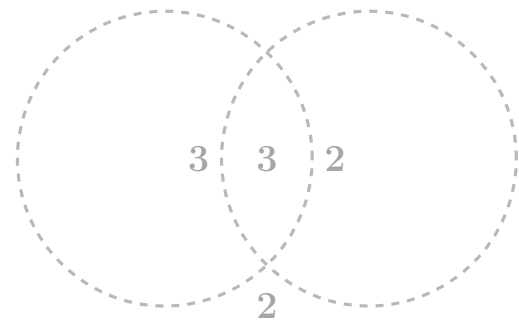
14. Below are 10 LEGO minifigures. The dashed circles show how many figures satisfy *two hidden rules*. Figure out the rules.



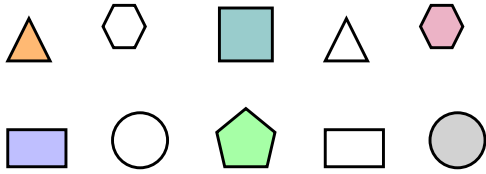
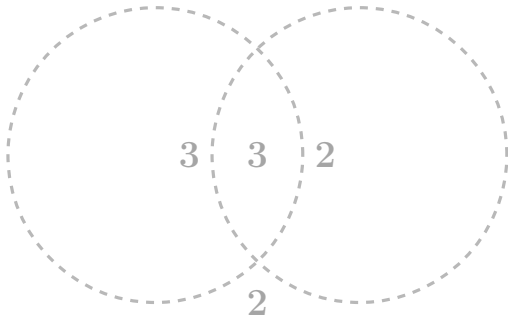
15. Below are 12 Set cards. The dashed circles show how many cards fit *each of two hidden rules*. Figure out both rules. **Bonus:** find all *sets*.



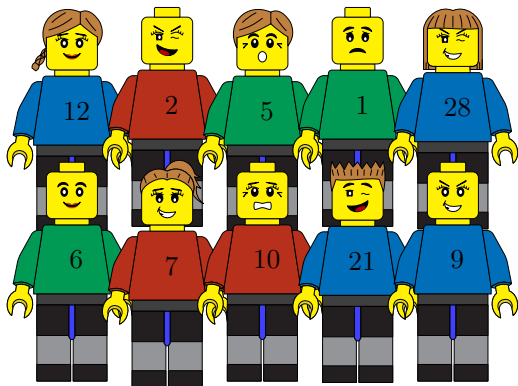
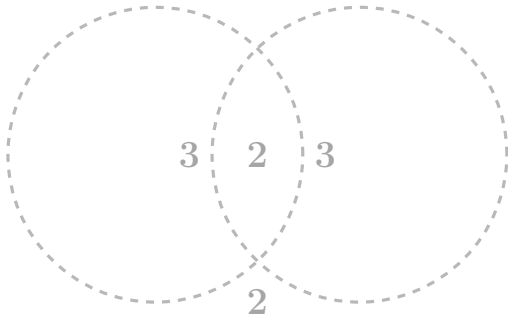
16. Below are 10 shapes. The dashed circles show how many fit *each of two hidden rules*. Do not move any—just figure out both rules.



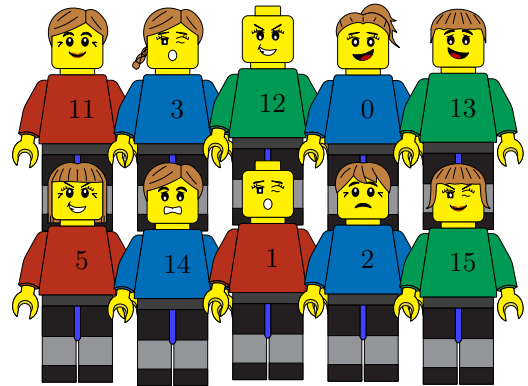
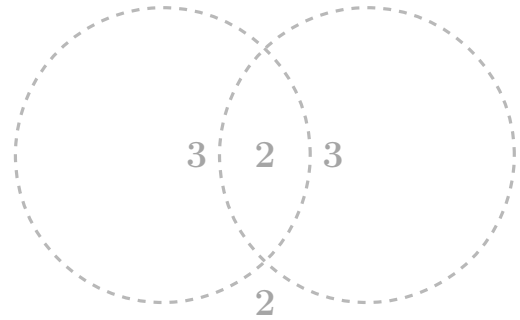
17. Below are 10 shapes. The dashed circles show how many fit *each of two hidden rules*. Do not move any—just figure out both rules.



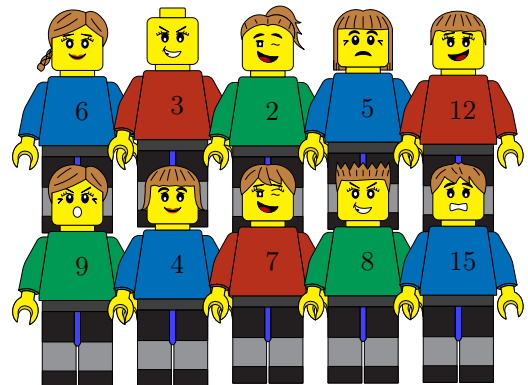
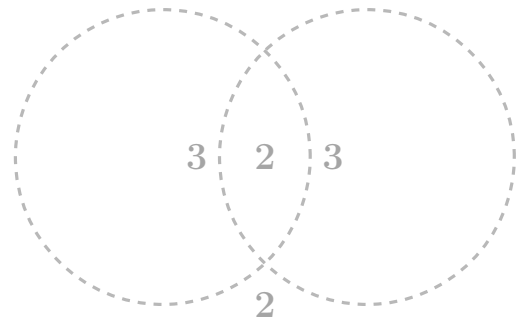
18. Below are 10 LEGO minifigures. The dashed circles show how many figures satisfy *two hidden rules*. Figure out the rules.



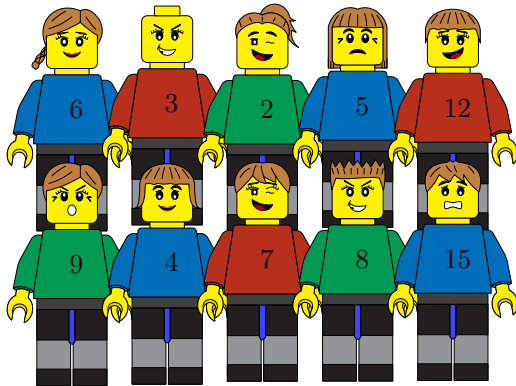
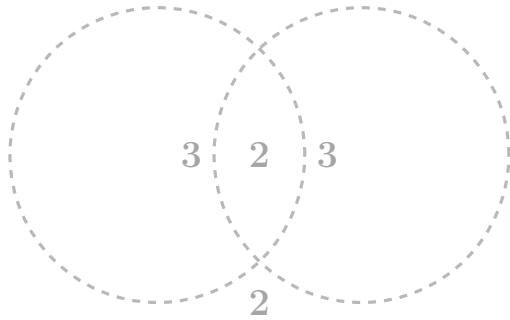
19. Below are 10 LEGO minifigures. The dashed circles show how many figures satisfy *two hidden rules*. Figure out the rules.



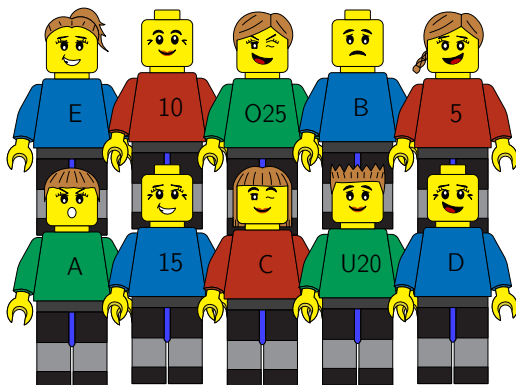
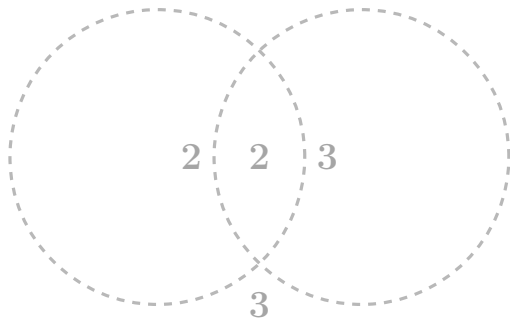
20. Below are 10 LEGO minifigures. The dashed circles show how many figures satisfy *two hidden rules*. Figure out the rules.



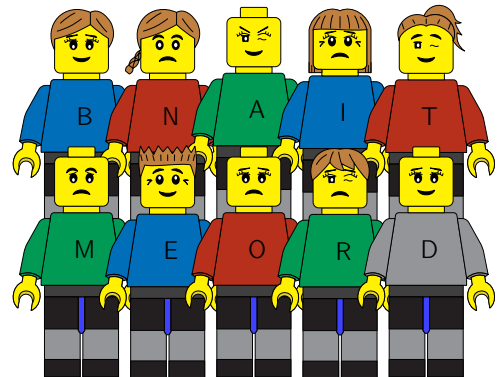
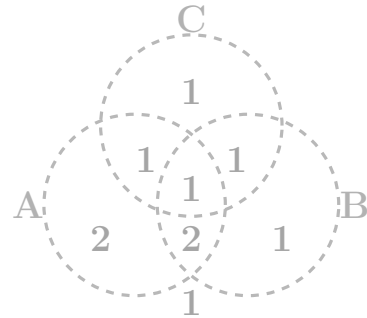
21. Below are 10 LEGO minifigures. The dashed circles show how many figures satisfy *two* hidden rules. Figure out the rules.



22. Below are 10 LEGO minifigures. The dashed circles show how many figures satisfy *two* hidden rules. Figure out the rules.



23. Below are 10 LEGO minifigures. The dashed circles show how many figures satisfy *three* hidden rules. Figure out the rules.



24. Three rules—one about *letters*, one about *hair*, and one about *even numbers*. Do not move any figures—use the counts.

